CLAIMS

1. A molding or coating material comprising a dispersion of binding agent which includes at least one hydrophobic resin, resin precursor and/or wax, filler and optionally conventional additives, characterised in that the filler contained has an at least bimodal particle size distribution, wherein the one particle size range (A) has a mean particle diameter of at least 5 μm and the other particle size range (B) has a mean particle diameter of at most 3 μm and the weight ratio of the particles of the former particle size range (A) to the particles of the latter particle size range (B) is between 0.01:1 and 12:1 and the constituents of the dispersion are so selected in respect of their hydrophilic properties that the static initial contact angle after 3 min equilibration is greater than 130°.

2. A molding or coating material as set forth in claim 1 characterised in that the binding agent contained, in each case in relation to the total weight of the solid proportion of the molding or coating material, includes between 0.2 and 20% by weight of the hydrophobic resin, resin precursor and/or wax and between 0.5 and 40% by weight of at least one additional curing binding agent.

3. A molding or coating agent as set forth in claim 1 or claim 2 characterised in that as a coating it has a maximum water absorption c $< 10\%$ by weight, preferably $< 7\%$ by weight, particularly $< 5\%$ by weight, quite particularly $< 3\%$ by weight, above all $< 2\%$ by weight.

4. A molding or coating material as set forth in one of claims 1 through 3 characterised in that it is a painting agent or plaster.

5. A molding or coating material as set forth in one of claims 1 through 4 characterised in that the particles of the former particle size range (A) have a mean diameter in the range of between 5 and 100 μm, preferably in the range of between 8 and 60 μm, in particular in the range of between 10 and 40 μm.

6. A molding or coating material as set forth in one of claims 1 through 5 characterised in that the particles of the latter particle size range (B) have a mean particle diameter of at most 1 μm, preferably in the range of between 0.1 and 0.8 μm.

7. A molding or coating material as set forth in one of claims 1 through 6 characterised in that the weight ratio of the particles of the former particle size range (A) to the particles of the latter particle size range (B) is in the range of between 0.3:1 and 10:1, preferably in the range of between 1.0:1 and 2.5:1.

8. A molding or coating material as set forth in one of claims 1 through 7 characterised in that the binding agent contains between 1.5 and 30 and preferably between 2 and 15% by weight of additional curing binding agent, in relation to the total weight of the solid proportion of the coating substance.

9. A molding or coating material as set forth in one of claims 1 through 8 characterised in that the binding agent contains between 1 and 15 and preferably between 1.5 and 4% by weight of silicone resin, in relation to the total weight of the solid proportion of the coating substance.

10. A molding or coating material as set forth in one of claims 1 through 9 characterised in that the filler contained therein contains at least two different inorganic substances of which one forms the particles of the particle size range (A) and the other forms the particles of the particle size range (B).

11. A molding or coating material as set forth in claim 10 characterised in that the particles of the particle size range (A) comprise cristobalite and the particles of the particle size range (B) comprise titanium dioxide.

12. A molding or coating material as set forth in one of claims 1 through 11 characterised in that as conventional additives it contains thickeners, wetting agents, organic or inorganic fiber materials and/or anti-foaming agents.

13. Use of a coating substance as set forth in one of claims 1 through 12 for coating facades and other parts of buildings.

ABSTRACT OF THE DISCLOSURE

Molding or coating materials, in particular coating substances for producing self-cleaning moldings or coatings, for example on facades and other building elements, which, if they are exposed to rain or moving water from time to time, clean themselves and prevent permanent settlement of dirt particles and pollutants. In accordance with the invention that object is attained with molding or coating materials having the features set forth in the opening part of this specification, which are characterised in that the filler contained has an at least bimodal particle size distribution, wherein the one particle size range (A) has a mean particle diameter of at least 5 μm and the other particle size range (B) has a mean particle diameter of at most 3 μm and the weight ratio of the particles of the former particle size range (A) to the particles of the latter particle size range (B) is between 0.01:1 and 12:1 and the constituents of the dispersion are so selected in respect of their hydrophilic properties that the static initial contact angle after 3 min equilibration is greater than 130°